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RECORD OF COMMUNICATION	PHONE CALL DISCUSSION FIELD TRIP CONFERENCE		
TO:	(Record of item checked above)		
10:	FROM:		DATE
for more that the control of the	Section 20	Marian Control	TIME
SUBJECT			
Vulcan Meeting 5/30/84	and the second s		acting
SUMMARY OF COMMUNICATION			/11 1
I attended annual Vulcan Chemi from EPA were Dave Svingen (TA Langemeier (WATR/DRNK cheef). tached. Also attached is a cope Much of the discussion pertain to Bill Bryson. In general bot in that letter & this meeting cussions that took place during the initial discussions were had done some solution min ing this location. The concern is salty water to reach & contami situation & seemed satisfied tion mining and feels that the so far. I do not consider this viewed & had no prevolus know	A copy of the other by of the agenda.  The tothe EPA recommends the KDHE & VMC seemed The following is a mag that meeting:  The following is a mag that meeting:  The a site some 10 miles for brine. Apparent both structural (1.00 inate the adjacent rethat it was being added to be part of the structural monits.	mcLaughlin (wmbk attendeds from Vinendations made to receptive to the summary as I recular the	o KDHE in our letter recommendations made all it on the displant, where they are some subsidence at the potential for is fully aware of this dispersits solution has shown no release
II. Most of the discussion was gw quality as affected by the that levels of chlorides are probably attributable to var.  VMC calrified the processes by a question from the public at clorinated benzenes in gw were Ziegler had discussed this with had been told that the gw was	remedial pumping an improving. Levelsof ious sources of orgate which the withdrawn a public meeting in the being injected into the Larry Knoche.	d injection progrorganics tend to nics & multiple pongweis injected. Wichita asking woo the deep wells had been my under	am. KHDE &VMC feel fluctuate. This is flumes.  Tim Amsden had had hether or not the at this site. Vic standing that Vic
ganics prior to injection. Als porocess water.  VMC reported that their conclusions, action taken on required	so that much of the value of th	withdrawn gw was d but had been fo	being resued as und to be unfeasible
& then injected into the deep in the holding pond though. The water as process water.*This Langemeier, chief WATR/DRNK wa	well-no pretreatment ne concentrations of information should be	t. There is somet Cl & SO4 prevent e forwarded to Ti	hing of an air break ed the reuse of this m Amsden. Raiph

Also VMC was present when this question was asked and understood it differently. VMC understood the question to ask if currently generated hex wastes (such as were previously landfilled) were being injected into the deep wells. VMC said that they had answered that question: No hex wastes were not being disposed into the injection well.

INFORMATION COPIES

TO:

be advising Tim of this.

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30299042 Superfund Regarding injection VMC also stated that it was their belie. that the limistone of the ARbuckle formation, into which wastes are injection, would effectively degrade the chlorinated to the chlorinated below vulcan to accept wastes for another 50 (500?) years, at currently injected rates of disposal.

VMC then described allot of the other water recitaling projects they have implemented or planned. So far they have not found a way to recycle the withdrawn gw.

Vulcan was asked if they had investigated gw use and contamination to the southeast, which is the regional direction of gw flow. Various gw uses & pumpings have tended to prevolvely pull gw in other directions. VMC & KDHE said that they thought the plume had been adequately defined in this area. I alsed that KDHE share this information with Vic Ziegler, who although not present at this meeting had raised this as a concern as stated in EPA's letter to KDHE. Bill Bryson agreed to do this.VMC also explained that they do periodic monitoring of the private wells in that direction & so far have not detected anything that could be attributed to VMC.

VMC explained how they had been able to have the municipal water line run up to the homes on 55th & Hoover. They subsidized the installation of that line. Previously some of these homes had been receive ing carbon filtered water units. At present all but 2 or 3 of the homes in this area on are on the alternate (CLearview) water supply. One did not want to be & the other (s) were too far from the line. These other homes are receiving either bottled drinking water or have carbon filter units. VMC is responsible for the maintenence of the units.

VMC also provided some specifications & details on the withdrawl & injection wells. I have these in my hadd-written notes if anyone should want to see them. Others present for this meeting probably also have notes on this.

#### Groundwater Model

VMC explianed some of the problems they are having calibrating the model. Organics appear especially hard to model trinds. Chaloride concentrations appear to be improving. Part of the reason for the variable concentrations of organics may be the multiple contaminant plumes from spills on the site.

The model also makes some assumptions that do not exactly replicate field conditions (i.e. that the uppper and lower aquifers are completely separated. This is believed to be true under Vulcan but not through-out the boundaries of the model, which is 6X8 miles). Model designed to predict flow in both shallow & deep aquifers.

This led into discussion of the need to have the lab certified. If they are going to predict contaminant trends and flows based upon concentrations in the mid ppb, they need to know that the lab is precise in this data. Bryson especially agreed with this. He has discussed with KDHE chemist Hammerschmidt how they will proceed on this. I suggested that they contact Bob Klooepfer, ENSV 15 if they have an interest in participating in a blind audit.

Next related topic of discussion was on the recommendation EPA made re the feasibility study to look at other pumping rates (on gw withdrawl) in the upper vs lower aquifer. Once Dave Svingen explained our rationale on this (that a given volume of water pumped from the confined aquifer has a larger cone of depression that in the uppper, unconfined aquifer) they agreed Withat this should be pursued. They will need to claibrate the mod1 which should then be of some use in looking at altered pumping rates.

### Hex Cake Landfill.

During meetings Chet mentioned that a few years ago there had been some discussion about using lysimeters to determine if there was any water percolating through the cap. This had never been implemented. During the tour of the site around the laddfill this was discussed again & VMC (Mason) agreed to consider. In addition agreed that he

had been considering doi ome monitoring of leachate see around the toe of the l'andfill, if he could find any. Some surface water was observed on the NW side, but this was above the fill & was believed to be surface run-off.

The slope of the cap did not appear all that consistent. However this was believed to be the result of the application of some additional rubble fill above the clay cap. Therefore it does not appear the effectiveness of the cap, to encapsulate the wastes, has been compromised.

#### Flowmeters

Flowmeters had been purchased by VMC for installation in the monitoring wells along the southern (downgradient direction) side of the site. These had to be returned for recalibration. Readings from the flowmeter installed were somewhat inconclusive. This might be partly the function of the stagnant flow described, by VMC & KDHE, to the south of the site. VMC had wanted to assure that the additional interceptor well installed to the SW was sufficient to pull back the contaminated groundwater form that direction.

These flowmeters are newly developed devices. They are very sensitive to heat & extraneous vibrations, which can give misleading readings.

## Deep Well Operation

Some additional information was provided on the operation of the depp wells. Deep well have been used for the disposal of water at this site since 1957. Two deep wells had to be replaced. These were plugged under KDHE supervision.

KDHE indicated that they now had primacy for the UIC program. One of the committments they made was to have all the Class I wells permitted this year. This requires new integrity testing of the casing. This is a costly process. VMC thought that they had done an equivalent assurance of the integrity of the casing & asked if this would suffice. They indicated that it would be an extreme hardship if they were to have to do this onl/ all their injection wells this year. (They can not go into an injection well for less than \$30,000.) KDHE said that they would have to check on this. VMC may use the appeal process.

VMC said that the average concentration of chlorosolvs was 100 ppm in the water injected into the deep wells, and 25 ppm on chlorophenols, less than 1 ppm on the hexachlorinated benzenes. They have deep well injection capacity of 1750 gallons per minute, using all 5 wells. However they only use about 1200 g/m of that capacity. This givens them some flexibility. Essentially they have one extra injection well.

#### Community Relations

One comment in EPA letter was re the need for community releations. VMC explained what they are now doing in this regard. It seemed quite adequate.

This led to discussion of Vulcan's claim of CBI on 3007 response. I explained the difference byteen sensitive information & CBI documents. I said that our initially ruling was to uphold CBI claim. However CNSL will make final fuling & I do not know what that will be. However even if EPA Rules that documents are not CBI we have no intention in providing them to anyone without an FOIA request.

The status  $f\phi$  of the A.D. Gillen FOIA request was clarified. Vulcan had contacted Gillen  $d\phi$  and provided the information he had requested from EPA. (I had suggested this as the best way for all, to had need this FOIA.)

#### Diomin

I explained the tier policy of EPA on dioxin. I said that Vulcan had been identified a one of the sites in Region VII whose manufacturing operations had the potential to result in dioxin contamination. Explained that site would be interest visited by ENSV EP&R (or FIT) and sampled. Did not know when this would happen. VMC expressed some interest in doing the smapling themselves instead of EPA. I explained that they would have to

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satisfy EPA On the metho f sample collection & analyse If VMC wants to follow up on this they will Contact Pat Costello.

# Site Tour

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Prior to the meeting we had driven around the permimeter of the site. We saw a number of the deep & shallow monitoring wells. We were also looking for the numbers of homes in the area and related populations.

Following the meeting the EPA personnel were accompanied on a tour of the site. Units of interest which we saw were the old hex cake landfill, t a holding poid for run-off water (lined with HDPP), and some of the injection wells.

This meeting summary/trip report was typed on 6/1/84. It is based upon notes I took during the meeting & upon my personal recollections of the meeting. The other representatives of EPA were also taking notes & might have a slightly different understanding of various per/points of the meeting.

xulil attached are my needing nodes from phis meeting. Legi AGENDA FOR KDHE MEETING MAY 30, 1984 that receled to know 10:00 a.m. what was sein on were ANNEX CONFERENCE ROOM short. Do Shave to clean I. Brine Field Hem up - Linguesce A. Review Subsidence Discuss On-going Plans Groundwater Management Plan Current Groundwater Plan Interceptor Wells Monitoring of Static Water Levels Oxyl deep 3 kgr Sampling Program Groundwater Model Flow Meter 55th and Hoover Assessment Deep Well Operations Capacity vs. Interceptor Well Pumpage and Plant Disposal Deep Well Reporting C. Maintenance Program D. Wastewater Reduction Projects Community Awareness Open House Program General Community Projects are you asking alcout CBI

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III.

IV.

Annual KDHE and Vulcan meeting

Vulcan - Esveronmenta Coordinte

5-30-84

Vulcan - Tech. Manager

KRHE - Buren of at Till

KDHE - Wichita

KDHE Bureau Oil Field

EPA Supeylund Setien

Weston SPER

VULCAN - Div. Env. GRPLA

EPA about Man. Br.

EPA - Drinking Water Br.

KDHE - Topeka - DivofEnvir

VUICAU - ASST PLANT HER.

Vulcan - Plant Mgr

Slang J. Mason
Dave Harrison
Bill Bryson
Ralph E. D'Corror
Logry Knoche
Nave Crawfoul
David Svingen
Tom ParroTT
Onet Mchaufilin
Ralph Langemeier
Allen Abramsan
BILL MINISH

Jim Boyd

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